PROPOSED PHASING PROJECT DESCRIPTION EQUIPMENT LIST "B" GENERAL B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR: RYG THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC ITEM NO. QUANTITY DESCRIPTION SIGNAL AND THE CHANGE OF LEFT TURN MOVEMENT AT THE INTERSECTION OF US 1 ___1001 MAINTENANCE OF TRAFFIC (BELAIR ROAD) AND DUNFIELD ROAD/ RAMP FOR MD 43 IN BALTIMORE COUNTY. THIS INTERSECTION IS INCORPORATED IN THE US 1 SIGNAL SYSTEM. STREET LIGHTING 2001 CLASS 2 EXCAVATION 3 CY Phase 1 & 6 IS EXISTING. THE ROUTE SIGNS AND THE STREET NAME SIGNS WILL BE REPLACED. $\mathsf{D}\mathsf{W}$ DW 2002 TEST PIT EXCAVATION 3 CY 1 & 6 Change DW US 1 (BELAIR ROAD) IS ASSUMED TO TRAVEL IN A NORTH-SOUTH DIRECTION. 5001 REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS (ANY WIDTH) 90 LF Phase 2 & 6 DW DW II. INTERSECTION OPERATION 5002 17 EA REMOVAL OF EXISTING PAVEMENT MARKING ARROWS AND LETTERS 2 & 6 Change DW THE INTERSECTION SHALL OPERATE A SEVEN-PHASE, FULL-TRAFFIC-ACTUATED MODE 5005 140 LF 12" WHITE HEAT APPLIED PERMANENT PAVEMENT MARKINGS WITH AN EXCLUSIVE LEFT TURN FOR THE NORTHBOUND US 1 WITH DETECTION DW Phase 3 & 7 DW 5007 HEAT APPLIED WHITE PERMANENT PREFORMED PAVEMENT MARKING LETTERS 4 EA PROVIDED BY VIDEO CAMERA AND QUEUING LOOP. MD 43 RAMP AND DUNFIELD ROAD HAVE EXCLUSIVE/PERMISSIVE LEFT TURNS WITH DETECTION PROVIDED BY VIDEO MAY SKIP TO PHASES 3 & 8; 4 & 7; 4 & 8. DW CHANGE DW 5008 HEAT APPLIED WHITE PERMANENT PREFORMED PAVEMENT MARKING ARROWS 2 EA CAMERAS. EASTBOUND DUNFIELD ROAD HAS AN EXCLUSIVE/PERMISSIVE RIGHT DW TURN THAT OPERATES AN OVERLAP MOVEMENT WITH PHASE 1 AND PHASE 4. DW Phase 3 & 8 5009 90 LF 5" WHITE HEAT APPLIED PERMANENT PAVEMENT MARKINGS DW 8 Change R DW 6001 DEPRESS CURB AND GUTTER A PUSH BUTTON ACTUATED PEDESTRIAN MOVEMENT TO CROSS THE NORTH LEG OF 20 LF US 1 WILL OPERATE WITH PHASE 8. 230 SF 4" SIDEWALK 6004 Phase 4 & 7 $\mathsf{D}\mathsf{W}$ DW VIDEO CAMERAS PROVIDE DETECTION FOR SAMPLING STATIONS ON BOTH LEGS 8001 CONCRETE FOUNDATION 13 CY 7 Change DW OF US 1. MICRO LOOP PROBES PROVIDE THE ADVANCE DETECTION ON US 1. AN 8008 CONTROL CABLE, 200' VIDEO DETECTOR CAMERA TO CONTROLLER EXISTING RED LIGHT CAMERA SYSTEM SHALL BE MAINTAINED FOR SOUTHBOUND 1 EA RΙ R R G G | DW DW Phase 4 & 8 OF US 1. THE INTERCONNECT CABLES AND THE RED LIGHT SYSTEM SHALL BE 8009 2 EA CONTROL CABLE, 300' VIDEO DETECTOR CAMERA TO CONTROLLER RE- ROUTED TO THE PROPOSED CABINET LOCATION. 4 & 8 Change DW DW CONTROL CABLE. 400' VIDEO DETECTOR CAMERA TO CONTROLLER 8010 1 EA Phase 4 & 8 ALT A SOLID STATE EIGHT-PHASE, FULLY-TRAFFIC-ACTUATED CONTROLLER WITH 2 INSTALL STEEL POLE WITH SINGLE OR TWIN MAST ARMS (NOTE: FOUR-2" X 90" AND EIGHT-1 3/4" X 90" ANCHOR BOLTS SHALL BE REQUIRED) 8013 3 EA FOUR-CHANNEL AMPLIFIERS, CAMERA INTERFACE, INTERCONNECT AND RED LIGHT PEDESTRIAN CLEAR |∢ R . CAMERA SYSTEMS. WITH ALL NECESSARY EQUIPMENT HOUSED IN A SIZE '6' BASE 10' PEDESTAL POLE WITH BREAKAWAY BASE(NOTE:4-1" X 40" ANCHOR BOLTS) 4 & 8 ALT Change | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R - | R MOUNTED CABINET SHALL BE INSTALLED AT THE INTERSECTION. 8018 1 EA DW |↓ DW 8019 REMOVE AND DISPOSE OF EXISTING EQUIPMENT III. SPECIAL NOTES: 1 EA Flashing FL/R |FL/R |FL/Y|FL/Y|FL/Y|FL/Y|FL/R |FL/R Operation 2340 LF DISCONNECT, PULL BACK AND RE- ROUTE CABLES REFERENCE THE GENERAL NOTES ON THE PLAN. 4" X 4" WOOD SUPPORTS WIRING DIAGRAM S.T.U.V.W.X. NO. 6 AWG STRANDED BARE COPPER GROUND WIRE Y.Z.AA.BB.EE EQUIPMENT LIST "A" 3" ELECTRICAL CONDUIT- GALVANIZED RISER 8036 4" SCHEDULE 80 PVC CONDUIT- BORED A. EQUIPMENT TO BE SUPPLIED BY THE SHA AND INSTALLED BY THE CONTRACTOR. REMOVED AND A,B,C,F,G,H,J,K,L,M,N,O, RE-INSTALLED 8037 P.Q.R.S.T.U.V.W.X.Y.Z. 2" SCHEDULE 80 PVC CONDUIT - TRENCHED INTERCONNECT -J.K.R.W.CC ITEM NO. QUANTITY DESCRIPTION AA,BB,CC,DD,EE,FF,GG 8038 EXISTING 335 LF 3" SCHEDULE 80 PVC CONDUIT- TRENCHED CABLE _DD,EE INTERCONNECT 8039 4" SCHEDULE 80 PVC CONDUIT- TRENCHED I EA SOLID STATE, FULL- TRAFFIC- ACTUATED, EIGHT-PHASE CONTROLLER BGE # BGE # 258 1/2 WITH 2 FOUR-CHANNEL AMPLIFIER. CAMERA INTERFACE AND ALL 529393 8042 ,109876 405 LF 4" SCHEDULE 80 PVC CONDUIT- SLOTTED NECESSARY EQUIPMENT HOUSED IN SIZE '6' BASE MOUNTED CABINET. S,T,U,V,W,X,Y,Z, 8043 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE 28 LF AA.BB.EE.GG 2 EA 27' STEEL POLE WITH 50' MAST ARM (NOTE: THE 4 - 13/4" X 90" ANCHOR 9022 BOLTS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. A.B.C.F.G.H. 8044 EE—7 METERED SERVICE PEDESTAL 1 EA J.K.L.M.N.O. P.Q.R.CC.DD 27' STEEL POLE WITH TWIN 50' X 60' MAST ARMS (NOTE: THE 4 - 2" X 90" 8046 ELECTRICAL CABLE 1-CONDUCTOR NO.4 AWG.THHN/THWN (3 WIRES) 30 LF ANCHOR BOLTS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR) LW S 8049 MIRCO LOOP PROBE, 1000' LEAD-IN CABLE A.B.C.F. 4 EA G.H.L.M. SHEET ALUMINUM FOR GROUND MOUNTING SIGN C B.F 8052 ELECTRICAL HANDHOLE 7 EA 0,0,S,T, ----B,C,F U.V.X.Y.Z. INSTALL GROUND MOUNTED SIGNS 8054 2 EA R3-9 "WRONG WAY" (36" X 24") 73 SF A • G ---→ AA.BB.CC R3-7(L) "LEFT TURN MUST TURN LEFT" (30" X30") S.Y.Z. 8055 INSTALL OVERHEAD MOUNTED SIGNS 93 SF R3-7 (FYG) "PEDESTRIAN CROSSING" SYMBOL (30" X 30") _B.C.F.U.V 8056 VIDEO DETECTOR CAMERA 4 EA B,C,F,O, NOTE: RELOCATE I EA "LEFT TURN MUST TURN LEFT" (30" X 30") Q.U.V.CC 8067 PAY ITEM INCLUDED IN ITEM NO. 8054 ON 'B' LIST. 1280 LF 12-PAIR COMMUNICATION CABLE SELF-SUPPORTING OVERHEAD A.G.H.L. A.G.H.L. 8069 250 WATT HPS LAMP AND LUMINAIRE 1 EA 90 SF SHEET ALUMINUM FOR OVERHEAD MOUNTING SIGN M.X.CC M.S.X. Y.Z.CC 8073 GROUND ROD (3/4" DIA X 10' LENGTH) 7 EA M.X 2 EA R3-I(L) "NO LEFT TURN" (24" X 24") 8074 8" VEHICULAR TRAFFIC SIGNAL HEAD SECTION T,AA,BB 9 EA 2 EA R3-I(R) "NO RIGHT TURN" (24" X 24") R3-5 "STRAIGHT THROUGH ONLY" (30" X 36") BGE # 8075 12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION BGE # 40 EA BGE # BGE # ELW R3-5L "LEFT TURN ONLY" (30" X 36") 299362 BGE # 155494 505250 BGE # 109881 C&P 004 RIO-12 "LEFT TURN YIELD ON GREEN" (36" X 42") 109880 8078 CUT, CLEAN GAL. AND CAP POLE CONSTR. DETAIL 'B' FROM 50' TO 40' 1 EA 139505 RIO-5 "LEFT ON GREEN ARROW ONLY" (24" X 30") 8080 1300 LF ELECTRICAL CABLE 2- CONDUCTOR NO.14 AWG, ALUMINUM-SHIELDED 2 EA D3-2 "ARROW, Dunfield RD/ Dunfield RD. ARROW" (VARIABLE X 16") DUAL FACED 8081 ELECTRICAL CABLE 2- CONDUCTOR NO.14 AWG WIRING KEY 2 EA M95-1 "ROUTE ASSEMBLY" (72" X 24") A.B.C. - 5-CONDUCTOR ELECTRICAL 8082 ELECTRICAL CABLE 3- CONDUCTOR NO.14 AWG U.V - CAMERA WITH 300' LEAD DD - PULLED BACK CAMERA AND LOOP NOTE: RELOCATE | EA "BUS STOP" (12" X 24") PAY ITEM CABLE (NO. 14 AWG) CABLE TO CONTROLLER CABLES TO BE REROUTED PS - UNDERGROUND SERVICE 8083 1310 LF ELECTRICAL CABLE 5- CONDUCTOR NO.14 AWG INCLUDED IN ITEM NO. 8055 ON 'B' LIST. F•G•H•J• FEED BGE POLE # 529393 - 7-CONDUCTOR ELECTRICAL w - CAMERA WITH 200' LEAD EE - 12-PAIR COMMUNICATION CABLE 8084 2110 LF ELECTRICAL CABLE 7- CONDUCTOR NO.14 AWG CABLE TO CONTROLLER CABLE (NO. 14 AWG) SELF-SUPPORTING OVERHEAD S - METERED SERVICE PEDESTAL PROJECT CONTACTS 8085 ELECTRICAL CABLE 2- CONDUCTOR NO.12 AWG.TC N.O - 2-CONDUCTOR ELECTRICAL X - CAMERA WITH 400' LEAD FF - 1-CONDUCTOR ELECTRICAL CABLE CABLE (NO. 14 AWG) CABLE TO CONTROLLER CONTACTS FOR OFFICE OF (NO. 4 AWG)-THHN/THWN (3 WIRES) CZ - CAMERA DETECTOR ZONE LOOP WIRE NO. 14 AWG ENCASED IN FLEXIBLE TUBING 8086 TRAFFIC AND SAFETY: P.Q - 3-CONDUCTOR ELECTRICAL Y.Z. - MIRCO LOOP PROBE SET. CONTACT PERSONS FOR GG - EXISTING 12-PAIR COMMUNICATION ──- GROUND ROD 8087 CABLE (NO. 14 AWG) SAWCUT FOR SIGNALS AA,BB 1000' LEAD IN CABLE CABLETO BE RE-ROUTED DISTRICT 4 ARE AS FOLLOWS: MR. RICHARD DAFF SR. R - 2-CONDUCTOR (NO. 12 AWG) CHIEF, TRAFFIC OPERATIONS 8088 PUSHBUTTON AND SIGN 2 EA MR. RANDALL SCOTT CC - NO.6 AWG TRAY CABLE 410-787-7630 MARYLAND DOT - STATE HIGHWAY ADMINISTRATION STRANDED BARE ASSISTANT DISTRICT ENGINEER 8089 15' LIGHTING ARM ON SIGNAL STRUCTURE 1 EA S - 2-CONDUCTOR (NO. 14 AWG) COPPER GROUND TRAFFIC - 410-321-2781 MR. ROBERT SNYDER Office of Traffic & Safety INSTALL CONTROLLER AND BASE MOUNTED CABINET(NOTE: THE INTERCONNECT CABLE AND THE RED LIGHT CAMERA SYSTEM SHALL BE RE-ROUTED TO THE PROPOSED CONTROLLER CABINET.) ALUMINUM SHIELDED CABLE 8094 WIRE 1 EA ASSISTANT DIVISION CHIEF. MR. DANIEL WITT T - 2-CONDUCTOR (NO. 14 AWG) TRAFFIC ENGINEERING DESIGN DIVISION TRAFFIC OPERATIONS DIVISION ALUMINUM SHIELD. SPICED ASSISTANT DISTRICT ENGINEER 410-787-7631 CONSTRUCTION - 4 0-321-2821 TO EXISTING LOOP WIRE GENERAL INFORMATION SHEET MR. ED RODENHIZER U.S. 1 (BELAIR ROAD) AND MR. STEVE MARCISZEWSKI EQUIPMENT LIST "C" TEAM LEADER - SIGNAL OPERATIONS IW - LOOP WIRE CABLE \mathbf{m} ASSISTANT DISTRICT ENGINEER "B"/ DUNFIELD ROAD MD 43 RAMP 410-787-7652 NO. 14 AWG MAINTENANCE - 410-321-2761 SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EMM CENTURY ENGINEERING, INC. DRAWN BY: F.A.P. NO. ELW - EXISTING MR. DERRICK DICKERSON EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND MS. SUENETTE POPE EMM. TH PROJECT MANAGER - TRAFFIC CHECKED BY: S.H.A. NO. AT3575185 LOOP WIRE SHEET NO. CONSULTING ENGINEERS - PLANNERS ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL ASSISTANT DISTRICT ENGINEER NOT TO SCALE ENGINEERING DESIGN DIVISION SCALE: COUNTY: BALTIMORE 32 WEST ROAD UTILITIES - 410-321-2841 BECOME THE PROPERTY OF THE CONTRACTOR. TOWSON, MARYLAND 21204 410-787-5856 2 _{OF} 2 03000106.28 G348 DATE: 9/14/2004 LOG MILE:

o:*TRANSDWG*22171*task 43*gpUS1 and Dunfield.dgn

9/14/2004